**Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Activity Sheet 1 Class \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Coins are pretty amazing. Think about it; you give someone a round piece of metal, and they give you stuff. In other words, coins have value. But they only have value if they meet stringent measurements. Learn more about coin specifications by completing the investigation below.

**Area of a Coin**

Use a ruler or caliper to measure the diameter of a 5, 10, 20 and 50 cent coin as accurately as you can.

Calculate the area of one side of each coin and its circumference.

Complete the table with your results.

**Formula needed**: Area = • r2

Circumference = 2 •• r

Let  = 3.14 or use the  button on your calculator

**Area and Circumference of Coins in mm.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Coin** | **Diameter**  **(mm.)** | **Radius**  **(mm.)** | **Area**  **(squ mm.)** | **Circumference**  **(mm.)** |
| **5 cent** |  |  |  |  |
| **10 cent** |  |  |  |  |
| **20 cent** |  |  |  |  |
| **50 cent** |  |  |  |  |



**How Accurate are Your Measurements?**

Verify the level of precision you obtained with your measurements by visiting the Internet and recording the exact specifications for the diameter of each type of coin in the table.

**Coin Sizes Comparison**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Coin** | **Diameter**  **(mm.)** | **Radius**  **(mm.)** | **Area**  **(sq. mm.)** | **Circumference**  **(mm.)** |
| **5 cent** |  |  |  |  |
| **10 cent** |  |  |  |  |
| **20 cent** |  |  |  |  |
| **50 cent** |  |  |  |  |

Were your measurements accurate? Explain.





Find out when the 1c and 2c coins were taken out of circulation.